

Please, DO NOT WRITE ON! Thank you ☺

Characteristics of Waves Reflection

Directions: On a separate piece of loose leaf paper, rewrite the following sentences with one word in parenthesis that accurately completes the sentence, underline the word you chose. **With your answer, WRITE THE RESOURCE AND LOCATION where that answer can be found** so you have a reference point.

- 1) When light waves are reflected, they always obey the law of (reflection, transmission): the angle of (refraction, incidence) equals the angle of (reflection, absorption). A (sound, light) wave is (reflected, refracted), or bent, when it changes speed as it travels from one material to another.
- 2) Sound is produced by (vibrations, waves).
- 3) Light is produced by (vibrations, waves).
- 4) A change in pitch or wave frequency due to movement of the source is known as (the Doppler effect, ultrasonic waves).
- 5) If a wave changes mediums and speeds up, it will bend (toward, away) from the normal and the wavelength will (increase, decrease).
- 6) If a wave changes mediums and slows down, it will bend (toward, away) from the normal and the wavelength will (increase, decrease).

Directions: On the same sheet of paper, rewrite the following paragraph with the word(s) that accurately completes each sentence, underline the word you chose. **With your answer, WRITE THE RESOURCE AND LOCATION where that answer can be found** so you have a reference point.

translucent opaque white transparent rough reflect mirage refraction diffuse regular smooth normal

For you to see an object, it must _____ light. A _____ reflection shows a clear image, like a mirror. A brick wall causes a _____ reflection. A surface is considered _____ when the surface bumps are big compared to the waves. A surface is considered _____ when the surface bumps are small compared to the waves. A material through which nearly all light passes through is _____. A material that lets some light pass through is _____. No light passes through _____ objects. A _____ results from light being refracted due to air layers of different density. _____ light is a mixture of all visible wavelengths of the spectrum. An imaginary line, perpendicular to the boundary of 2 mediums, that we measure the bending of waves against, is called the _____.